

# Capacitance Point level detection Solicap FTI55

## Point level detection for fine-grained to coarse-grained bulk solids



### Benefits:

- Highest safety and reliability due to robust design for demanding process conditions
- Cost savings thanks to easy and fast commissioning as calibration is performed at the press of a button
- Universal application thanks to wide range of certificates and approvals
- Two-stage overvoltage protection against static discharges from the silo
- Active build-up compensation for bulk solids with caking tendency (under development)
- Increased safety due to permanent automatic monitoring of electronics
- Reduction in storage costs thanks to easy-to-shorten rod model (for partial insulation) and rope model (for partial and full insulation)

More information and current pricing:

[www.cz.endress.com/FTI55](http://www.cz.endress.com/FTI55)

### Specs at a glance

- **Process temperature** -50°C ... 180°C (-58°F ... 356°F)
- **Process pressure absolute / max. overpressure limit** Vacuum ... 25 bar (Vacuum ... 362 psi)

**Field of application:** Solicap FTI55 is a fully/partly insulated and robust rod probe for point level detection of fine-grained to coarse-grained bulk solids. It offers maximum reliability due to its active build-up compensation and is suited for a wide range of applications thanks to numerous certificates and approvals. Due to its robust construction, it can also be used to provide accurate measurements in applications with very high lateral loads up to 300Nm.

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## Features and specifications

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### Point Level / Solids

**Measuring principle**

Capacitive Solid

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**Characteristic / Application**

Fully / partly insulated rod probe for small-grain / large-grain bulk solids

Simple calibration

Suitable for abrasive media

Very robust probe

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**Specialities**

Inactive length

Active build-up compensation

High lateral loading

Extremely robust probe

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**Supply / Communication**

19 ... 253V AC

10 ... 55V DC-PNP

19...253V AC bzw 10...55V DC

8/16mA, 11 ... 36V DC

PFM

3-wire

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**Ambient temperature**

-50°C ... 70°C

(-58°F ... 158°F)

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**Process temperature**

-50°C ... 180°C

(-58°F ... 356°F)

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**Process pressure absolute / max. overpressure limit**

Vacuum ... 25 bar

(Vacuum ... 362 psi)

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**Point Level / Solids****Main wetted parts**PE, PPS, 316L, Steel

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**Process connection**

Thread R1 1/2, NPT1 1/2

Flanges from DN50.../ASME 2".../JIS...

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**Sensor length**

0.2m ... 4m

(8" ... 157")

Inactive length: 0.1m ...1m

(2" ... 39")

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**Communication**

2- wire 19-253 VAC

DC PNP

Relais DPDT

PFM

3-wire

8/16 mA

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**Certificates / Approvals**ATEX, FM, CSA, IEC Ex, JPN Ex, NEPSI

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**Safety approvals**SIL

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**Design approvals**EN 10204-3.1

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**Components**

PFM: FTC325, FTC625, FTC470Z, FTC471Z

3-wire: FTC325

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**Application limits**DK min 2

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